SE010

DURA

SAFETY DATA SHEET

Date Issued : 6/8/2010
MSDS No : 14024.00.0111
Date Revised : 5/10/2016
Revision No : 8

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Duroct Zirconium 24%
PRODUCT CODE: 14024

MANUFACTURER
DURA Chemicals, Inc.
2200 Powell Street
Suite 450
Emeryville, CA 94608
Customer Service: 888-344-3872

24 HR. EMERGENCY TELEPHONE NUMBERS
24 Hour Emergency Phone Number 1-800-424-9300 CHEMTREC

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Catagory 2B
Skin Irritation, Category 2
Respiratory Tract Irritation, Category 3
Aspiration Hazard, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL

Exclamation mark Flame

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H320: Causes eye irritation.
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H305: May be harmful if swallowed and enters airways.
H227: Combustible liquid.

Precautionary statement(s)

Prevention:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Yellow liquid.

IMMEDIATE CONCERNS: NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by delibertaley concentrating and inhaling the contents may be harmful or fatal.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

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SKIN: Repeated contact may cause Dermatitis.

INGESTION: May cause gastrointestional irritation (nausea, vomiting, diarrhea) and central nervous system depression.

INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

MEDICAL CONDITIONS AGGRAVATED: Chronic respiratory disorders, skin disorders, liver and kidney disorders.

ROUTES OF ENTRY: Inhalation and ingestion.

TARGET ORGAN STATEMENT: May Cause (target organ or system) damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, etc.).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Zirconium Carboxylate	~ 85	22464-99-9
Mineral Spirits (Stoddard Solvent)	~ 25	8052-41-3
Ethanol, 2-(2-butoxyethoxy)-	~ 3	112-34-5

COMMENTS: Percentages are maximum content.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter lungs and cause Chemical Pneumonitis. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove to fresh air. If not breathing, give artifical respiration. If breathing is difficult, administer oxygen. Contact a physican.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms may include stinging, tearing, and redness.

SKIN: Symtoms may include redness and burning of the skin. May cause skin defatting with prolonged exposure.

INGESTION: Symtoms of ingestion may include nausea, vomiting, and diarrhea.

INHALATION: Symptoms may include dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness.

ACUTE TOXICITY: May cause skin and eye irritation.

CHRONIC EFFECTS: Chronic respiratory disorders, skin disorders, liver and kidney disorders.

NOTES TO PHYSICIAN: Contains Petroleum Distillates.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Combustible Liquid

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide and Carbon Dioxide.

EXPLOSION HAZARDS: Unopened containers may rupture in a fire situation.

FIRE FIGHTING PROCEDURES: During fire, water spray can scatter flames and should be used by

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experienced firefighters. Self-Contained Breathing Apparatus (SCBA) should be used when firefighting. Wear appropiate protective equipment as conditions warrant. Stop spill/leak if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk.

FIRE FIGHTING EQUIPMENT: Self-Contained Breathing Apparatus (SCBA) and appropiate Turn Out Gear.

FIRE EXPLOSION: Vapors may cause explosive mixtures with air. Vapors may travel to source of ignition and flash back. Runoff to sewers may create fire or explosion hazards.

SENSITIVE TO STATIC DISCHARGE: All containers should be appropiately grounded to prevent static build up.

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decompositition may produce Carbon Monoxide and Carbon Dioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: Eliminate all ignition sources. Prevent spilled material from entering storm sewers and waterways. Stop spill if it can be done with minimal risk. Keep unauthorized personnel from area.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep containers closed when not in use Store away from heat, sparks, and open flame. Bond and ground all equipment when transferring from one vessel to another.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in closed containers away from extreme heat, flame or strong oxidizing agents.

SHELF LIFE: Five (5) years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
Mineral Spirits (Stoddard Solvent)	**TWA**	100	525	100	525	NL	NL
	STEL	NL	NL	NL	NL	NL	NL
Ethanol, 2-(2-butoxyethoxy)-	**TWA**	NL	NL	NL	NL	NL	NL
	STEL	NL	NL	NL	NL	NL	NL

ENGINEERING CONTROLS: If current ventilation practices are not adequate to maintain airborne concentration below the established exposure limits, additional ventilation or exhaust systems may be required.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear Safety Glasses with side shields or Chemical Goggles.

SKIN: Depending on site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact.

RESPIRATORY: Select equipment to provide protection from listed Hazardous Ingredients. Depending on site-specific environmental conditions, appropriate NIOSH approved respirators should be used to keep

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exposure below exposure levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mineral Spirits
APPEARANCE: Liquid.
COLOR: Yellow.
FLASH POINT AND METHOD: 40°C (104°F) PMcc
FLAMMABLE LIMITS: 1.0 to 6.0
VAPOR PRESSURE: 2 mm Hg
VAPOR DENSITY: 4.9 Air = 1
BOILING POINT: (300°F)
SOLUBILITY IN WATER: None
EVAPORATION RATE: < 1 Butyl Acetate = 1
SPECIFIC GRAVITY: 1.2 to 1.330 ASTM D1475-98

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable.
CONDITIONS TO AVOID: Extreme heat, open flame.
INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

CHRONIC: Chronic respiratory disorders, skin disorders, liver and kidney disorders.
TARGET ORGANS: May cause nervous system, kidney or liver disorders.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with Federal, State and local regulations.
EMPTY CONTAINER: In accordance with 40CFR 261.7.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible Liquid n.o.s. (contains Petroleum Distillates)
PRIMARY HAZARD CLASS/DIVISION: 3
UN/NA NUMBER: NA1993
PACKING GROUP: III
OTHER SHIPPING INFORMATION: 49CFR 173.150: This material may be reclassified as combustible liquid. It can be shipped as a non-hazardous material if the container is under 120 US gallons.
U.S. CUSTOMS HARMONIZATION NUMBER: 3211.00.0000

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)
UN NUMBER: 1993

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HAZARD CLASS: 3
PACKING GROUP: III

AIR (ICAO/IATA)
SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)
UN/NA NUMBER: 1993
PRIMARY HAZARD CLASS/DIVISION: 3
PACKING GROUP: III

VESSEL (IMO/IMDG)
SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)
UN/NA NUMBER: 1993
PRIMARY HAZARD CLASS/DIVISION: 3
PACKING GROUP: IIII

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes
313 REPORTABLE INGREDIENTS: N230 Glycol Ethers
EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS	Comments
Ethanol, 2-(2-butoxyethoxy)-	~ 3	112-34-5	Percentages are maximum content.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS	TSCA SECTION
Zirconium Carboxylate	22464-99-9	
Mineral Spirits (Stoddard Solvent)	8052-41-3	
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	12b,

TSCA STATUS: Listed on Inventory.
STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Mineral Spirits (Stoddard Solvent)	California Hazardous Substance List; Idaho Air Pollutant List; Massachusetts Hazardous Substances; Minnesota Hazardous Substances; Pennsylvania Hazardous Substances; Washington Permissible Exposure Limits for Air Contaminants; Wisconsin Hazardous Air Contaminants.
Ethanol, 2-(2-butoxyethoxy)-	California Hazardous Substance List, Idaho Air Pollutant List, Massachusetts Hazardous Substance, Minnesota Hazardous Substance, Pennsylvania Hazardous Substance List, Washington PELs for Air Contaminants, Wisconsin Hazardous Air Contaminant.

FDA (FOOD AND DRUG ADMINISTRATION): 21CFR 175.300 (xxii) Resinous and Polymeric Coatings.
DEA (DRUG ENFORCEMENT PRECURSOR & ESSENTIAL CHEMICALS) LISTED SUBSTANCE: None

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION

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Combustible Liquid

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Combustible Liquid.

WHMIS CLASS: Class B3.

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed on Inventory.

COMMENTS Listed on Inventory: EU (EINECS); Australia (AICS); China (IECSC); Japan (MITI); Korea (KECI); Philippine (PICCS); New Zealand (NZIoC).

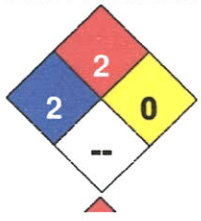
16. OTHER INFORMATION

REVISION SUMMARY: This SDS replaces the 6/29/2015 SDS. Revised: **Section 14:** DOT (DEPARTMENT OF TRANSPORTATION) - UN/NA NUMBER.

HMIS RATING

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA CODES



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